

FIG. 1

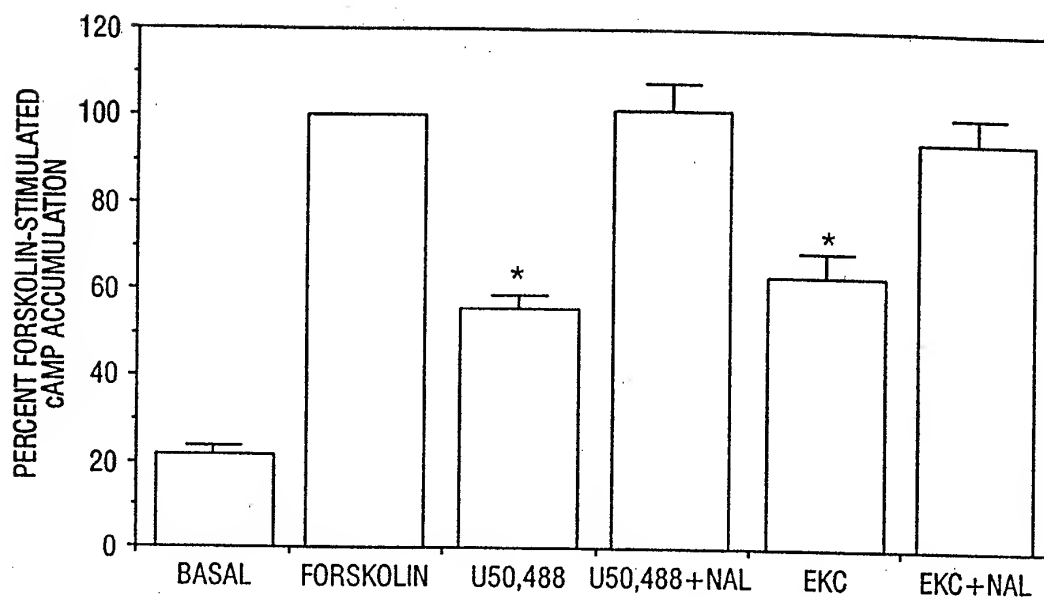


FIG. 2A

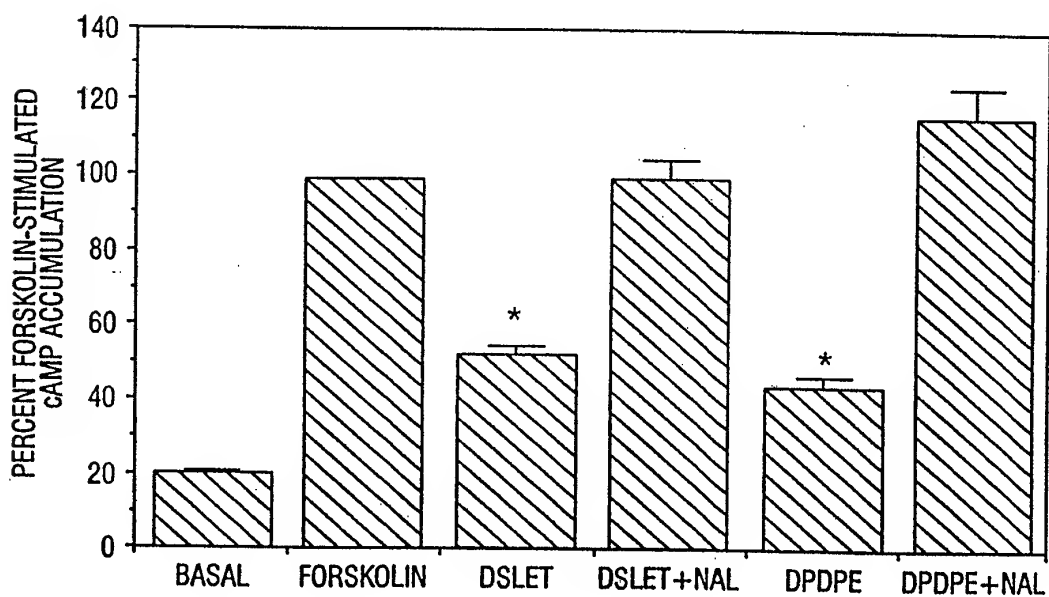


FIG. 2B

1	AAGAAGCAAAATCAGTAATCCAAAGGCTATCACAAACACATTACCTTATGGGGTTTGAC	
61	TTGAAATGGAGGGAATGCTATTGTTCTTTCTTTTAGATACACAAAGATGAAGACAG	TyrThrLysMetLysThrAla
121	CAACCAACATTTACATATTTAACCTGGCTTTGGCAGATGCTTTAGTTACTACAACCATGC	ThrAsnIleTyrIlePheAsnLeuAlaLeuAlaAspAlaLeuValThrThrThrMetPro
181	CCTTTCAGAGTACGGTCTACTTTGATGAATTCCTGGCCTTTGGGGATGTGCTGTGCAAGA	PheGlnSerThrValTyrLeuMetAsnSerTrpProPheGlyAspValLeuCysLysIle
241	TAGTAATTTCCATTGATTACTACAACATGTTACCAGCATCTTCACCTTGACCATGATGA	ValIleSerIleAspTyrTyrAsnMetPheThrSerIlePheThrLeuThrMetMetSer
301	GCGTGGACCGCTACATTGCCGTGTGCCACCCCGTGAAGGCTTTGGACTTCGCGACACCCCT	ValAspArgTyrIleAlaValCysHisProValLysAlaLeuAspPheArgThrProLeu
361	TGAAGGCAAGATCATCAATATCTGCATCTGGCTGCTGCTGCTCATCTGTTGGCATCTCTG	LysAlaLysIleIleAsnIleCysIleTrpLeuLeuSerSerSerValGlyIleSerAla

FIG. 3A

LysAlaLysIleIleAsnIleCysIleTrpLeuLeuSerSerValGlyIleSerAla  
 361 TGAAGGCAAAGATCATCAATATCTGCATCTGGCTGCTGCTGCATCTGTGGCATCTCTG  
  
 IleValLeuGlyGlyThrLysValArgGluA  
 421 CAATAGTCCTTGGAGGCACCAAGTCAGGGAAGGT:.....:TTTCTGTGTTGT  
  
 spValAspValIleGluCysCysLeuGlnPheProAsp  
 481 GGTTTTTATTGCCCTCCTCCAGACGTCGATGTCAATTGAGTGCTGCTTGCAGTCCCAGAT  
  
 AspAspTyrSerTrpTrpAspLeuPheMetLysIleCysValPheIlePheAlaPheVal  
 541 GATGACTACTCCTGGTGGACCTCTTCATGAAGATCTGCGTCTTCATCTTTGCCTTCGTG  
  
 IleProValLeuIleIleValCysTyrThrLeuMetIleLeuArgLeuLysNNNVal  
 601 ATCCCTGTCTCATCATCATCGTCTGTACACCCCTGATGATCCTGCGTCTCAAGANNNGTC  
  
 ArgLeuLeuSerGlySerArgGluLysAspNNNAsnLeuArgArgIleThrArgLeuVal  
 661 CGGCTCCTTTCTGGCTCCCGAGAGAAAGATNNCAACCTGCGTAGGATCACCAGACTGGTC

FIG. 3B

REPLACEMENT  
SHEET

661	ArgLeuLeuSerGlySerArgGluLysAspNNNAsnLeuArgArgIleThrArgLeuVal CGGCTCCTTTCTGGCTCCCGAGAGAAAGATNNCAACCTGCGTAGGATCACCAGACTGGTC	
721	LeuValValValAlaValPheValValCysIrpThrProIleHisIlePheIleLeuVal CTGGTGGTGGTGAGTCTTCGTCGTCGTCTGGACTCCCATTCACATATTTCATCCTGGTG	
781	GluAlaLeuGlySerThrSerHisSerThrAlaAlaLeuSerSerTyrTyrPheCysIle GAGGCTCTGGGAGCACCTCCACAGCACAGCTGCTCTCTCCAGCTATTACTTCTGCATC	
841	AlaLeuGlyTyrThrAsnSerSerLeuAsnProIleLeuTyrAlaPheLeuAspGluAsn GCCTTAGGCTATACCAACAGTAGCCTGAATCCCATTTCTCTACGCCTTTCTTGATGAAAAC	
901	PheLysArgCysPheArgAspPheCysPheProLeuLysMetNNNMetGluArgNNNSer TTCAAGCGGTGTTCCGGGACTTCTGCTTCCACTGAAGATGAGNATGGAGCGCNAGAGC	
961	ThrSerArgValArgAsnThrValGlnAspProAlaTyrLeuArgGluIleAspGlyMet ACTAGCAGAGTCCGAAATACAGTTCAGGATCCTGCTTACCTGAGGGAGATCGATGGGATG	
1021	MetAsnLysProValop ATGAATAAACCAAGTATGACTAGTCGTGGA	(SEQ ID NO:12) (SEQ ID NO:11)

FIG. 3C

REPLACEMENT  
SHEET

	Met	Glu	Ser	Pro	Ile	Gln	Ile	Phe	Arg	Gly	Asp	Pro	Gly	Pro	Thr	Cys	
	1				5					10						15	
	Ser	Pro	Ser	Ala	Cys	Leu	Leu	Pro	Asn	Ser	Ser	Ser	Trp	Phe	Pro	Asn	
				20					25							30	
	Trp	Ala	Glu	Ser	Asp	Ser	Asn	Gly	Ser	Val	Gly	Ser	Glu	Asp	Gln	Gln	
					35				40							45	
	Leu	Glu	Ser	Ala	His	Ile	Ser	Pro	Ala	Ile	Pro	Val	Ile	Ile	Thr	Ala	
					50				55							60	
	Val	Tyr	Ser	Val	Val	Phe	Val	Val	Gly	Leu	Val	Gly	Asn	Ser	Leu	Val	
					65				70				75			80	
HUMAN																	
MOUSE	Met	Phe	Val	Ile	Ile	Arg	Tyr	Thr	Lys	Met	Lys	Thr	Ala	Thr	Asn	Ile	
					85											90	
																95	

FIG. 4A-1

REPLACEMENT  
SHEET

HUMAN	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met	
MOUSE	Tyr	Ile	Phe	Asn	Leu	Ala	Leu	Ala	Asp	Ala	Leu	Val	Thr	Thr	Thr	Met	
				100					105							110	
HUMAN	Pro	Phe	Gln	Ser	Thr	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp	
MOUSE	Pro	Phe	Gln	Ser	Ala	Val	Tyr	Leu	Met	Asn	Ser	Trp	Pro	Phe	Gly	Asp	
				115					120							125	
HUMAN	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr	
MOUSE	Val	Leu	Cys	Lys	Ile	Val	Ile	Ser	Ile	Asp	Tyr	Tyr	Asn	Met	Phe	Thr	
				130				135					140				
HUMAN	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val	
MOUSE	Ser	Ile	Phe	Thr	Leu	Thr	Met	Met	Ser	Val	Asp	Arg	Tyr	Ile	Ala	Val	
				145			150				155					160	
HUMAN	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys	
MOUSE	Cys	His	Pro	Val	Lys	Ala	Leu	Asp	Phe	Arg	Thr	Pro	Leu	Lys	Ala	Lys	
					165			170								175	
UMAN	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ser	Ser	Ser	Val	Gly	Ile	Ser	
MOUSE	Ile	Ile	Asn	Ile	Cys	Ile	Trp	Leu	Leu	Ala	Ser	Ser	Val	Gly	Ile	Ser	
					180					185						190	

FIG. 4A-2

REPLACEMENT  
SHEET

HUMAN	Ala	Ile	Val	Leu	Gly	Gly	Thr	Lys	Val	Arg	Glu	Asp	Val	Asp	Val	Ile
MOUSE	Ala	Ile	Val	Leu	Gly	Gly	Thr	Lys	Val	Arg	Glu	Asp	Val	Asp	Val	Ile
								200								205

HUMAN	Glu	Cys	Cys	Leu	Gln	Phe	Pro	Asp	Asp	Asp	Tyr	Ser	Trp	Trp	Asp	Leu
MOUSE	Glu	Cys	Ser	Leu	Gln	Phe	Pro	Asp	Asp	Glu	Tyr	Ser	Trp	Trp	Asp	Leu
								215								220

HUMAN	Phe	Met	Lys	Ile	Cys	Val	Phe	Ile	Phe	Ala	Phe	Val	Ile	Pro	Val	Leu
MOUSE	Phe	Met	Lys	Ile	Cys	Val	Phe	Val	Phe	Ala	Phe	Val	Ile	Pro	Val	Leu
																240
																235

HUMAN	Ile	Ile	Ile	Val	Cys	Tyr	Thr	Leu	Met	Ile	Leu	Arg	Leu	Lys	NNN	Val
MOUSE	Ile	Ile	Ile	Val	Cys	Tyr	Thr	Leu	Met	Ile	Leu	Arg	Leu	Lys	Ser	Val
																255
																250

HUMAN	Arg	Leu	Leu	Ser	Gly	Ser	Arg	Glu	Lys	Asp	NNN	Asn	Leu	Arg	Arg	Ile
MOUSE	Arg	Leu	Leu	Ser	Gly	Ser	Arg	Glu	Lys	Asp	Arg	Asn	Leu	Arg	Arg	Ile
																270
																265

FIG. 4A-3



HUMAN	Thr	Arg	Leu	Val	Leu	Val	Val	Ala	Val	Phe	Val	Val	Cys	Trp	Thr
MOUSE	Thr	Lys	Leu	Val	Leu	Val	Val	Ala	Val	Phe	Ile	Ile	Cys	Trp	Thr
		275				280							285		
HUMAN	Pro	Ile	His	Ile	Phe	Ile	Leu	Val	Glu	Ala	Leu	Gly	Ser	Thr	Ser
MOUSE	Pro	Ile	His	Ile	Phe	Ile	Leu	Val	Glu	Ala	Leu	Gly	Ser	Thr	Ser
		290				295							300		
HUMAN	Ser	Thr	Ala	Ala	Leu	Ser	Ser	Tyr	Tyr	Phe	Cys	Ile	Ala	Leu	Gly
MOUSE	Ser	Thr	Ala	Ala	Leu	Ser	Ser	Tyr	Tyr	Phe	Cys	Ile	Ala	Leu	Gly
	305					310					315				320
HUMAN	Thr	Asn	Ser	Ser	Leu	Asn	Pro	Ile	Leu	Tyr	Ala	Phe	Leu	Asp	Glu
MOUSE	Thr	Asn	Ser	Ser	Leu	Asn	Pro	Val	Leu	Tyr	Ala	Phe	Leu	Asp	Glu
						325						330			335

FIG. 4B-1

FIG. 4B-2

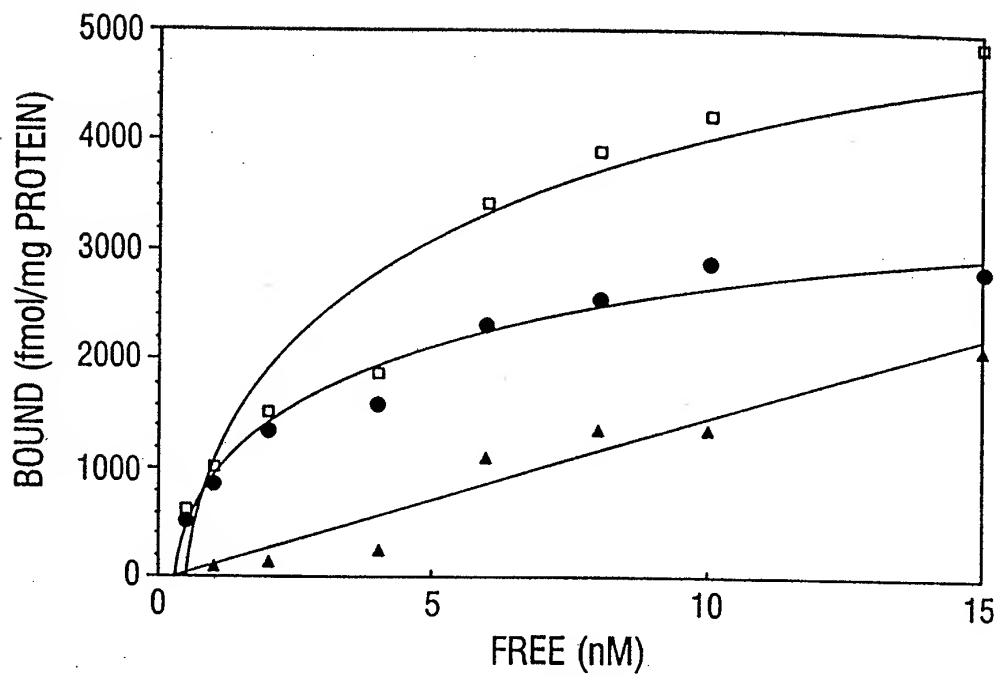


FIG. 5A

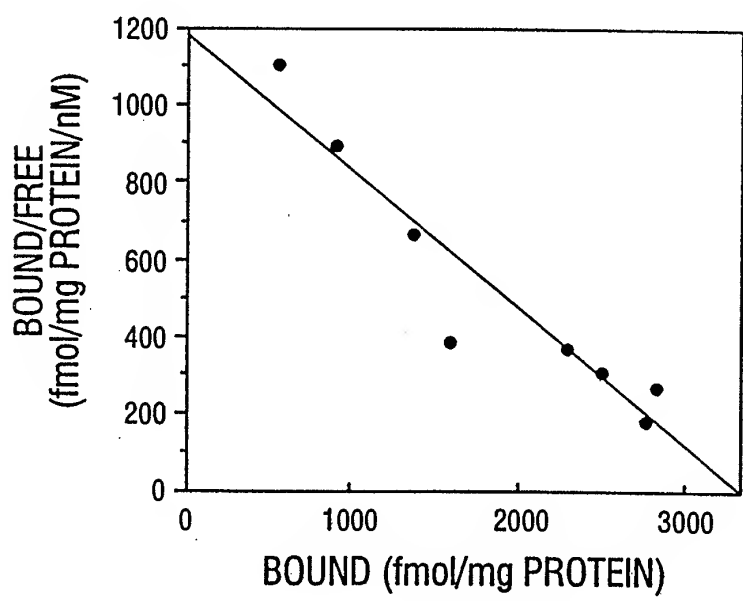


FIG. 5B

REPLACEMENT  
SHEET

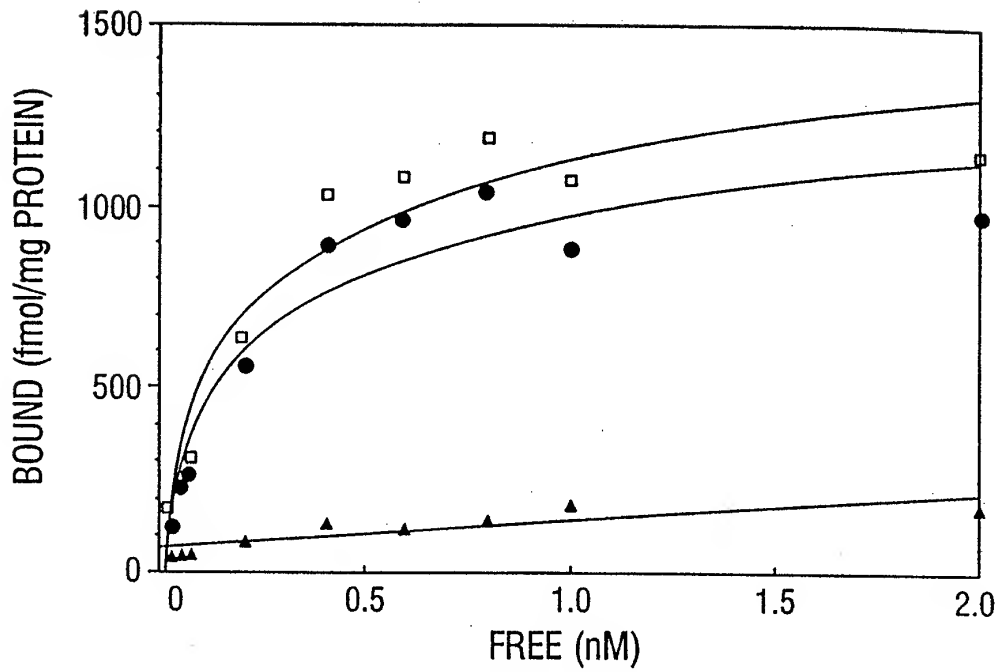


FIG. 5C

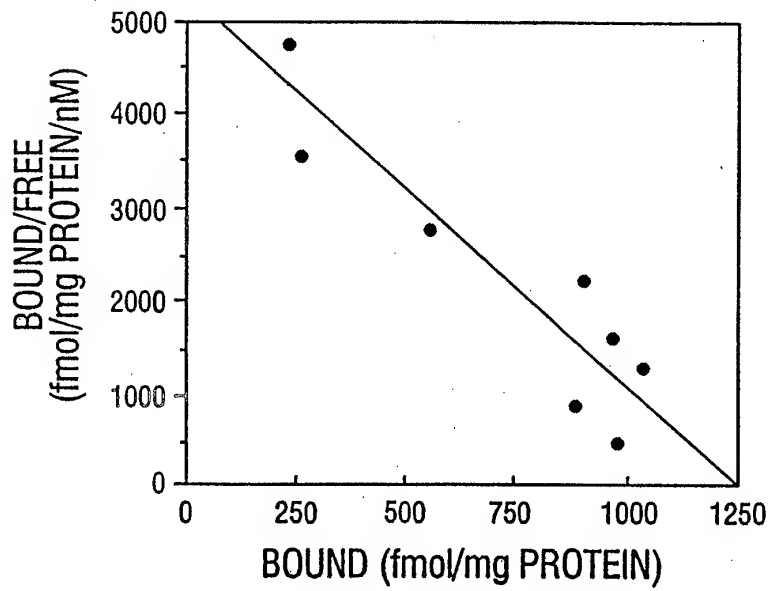


FIG. 5D

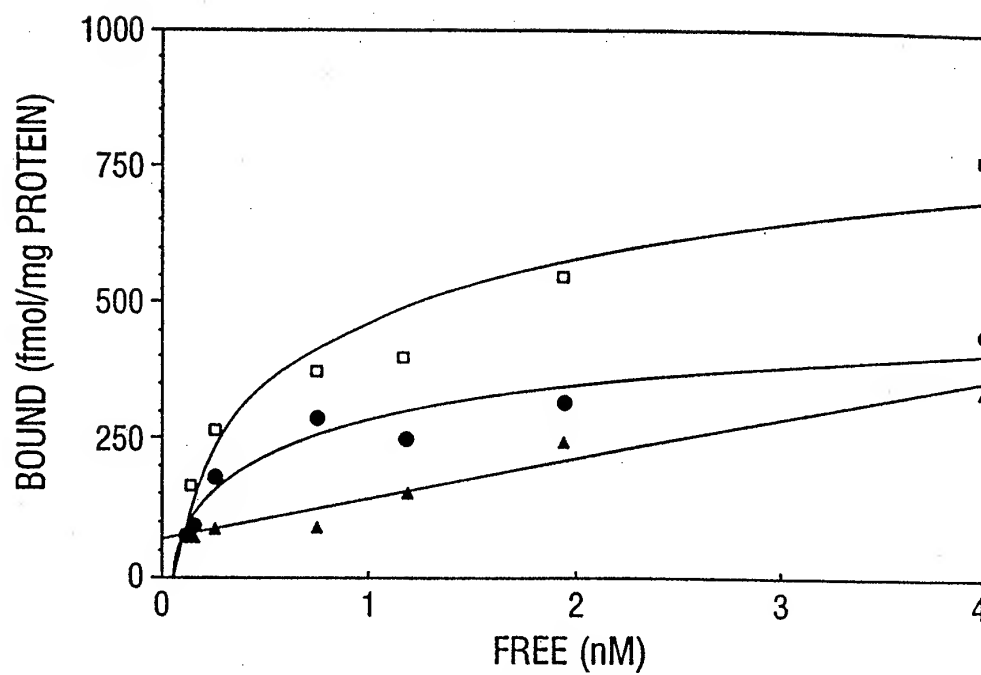


FIG. 5E

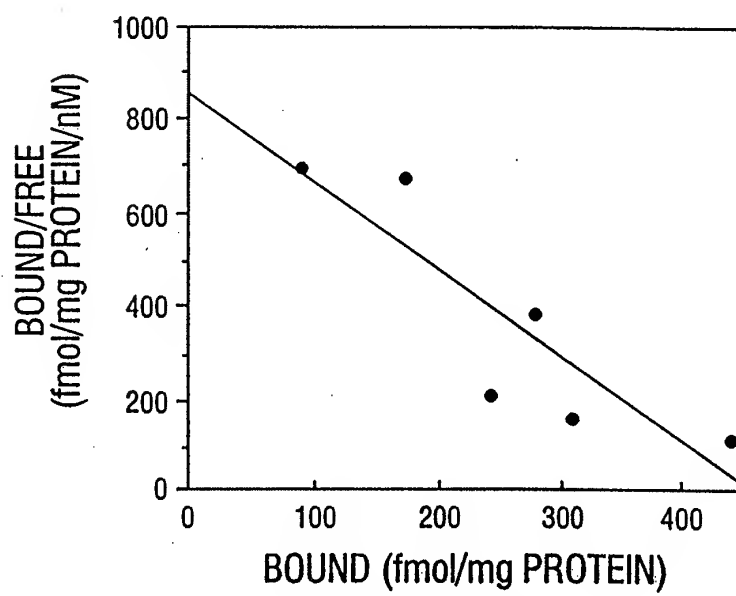


FIG. 5F

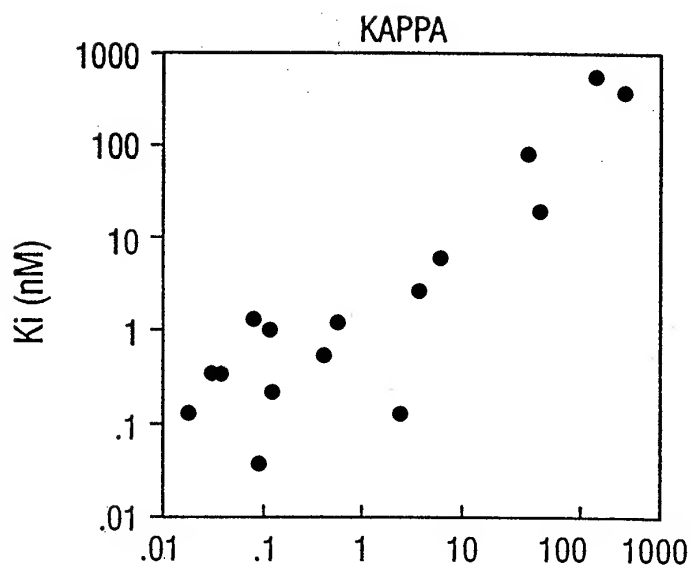


FIG. 6A

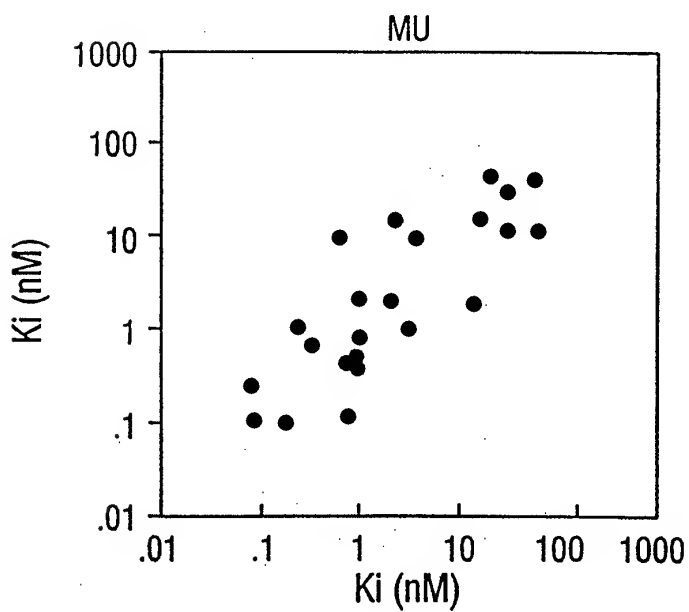


FIG. 6B

REPLACEMENT  
SHEET

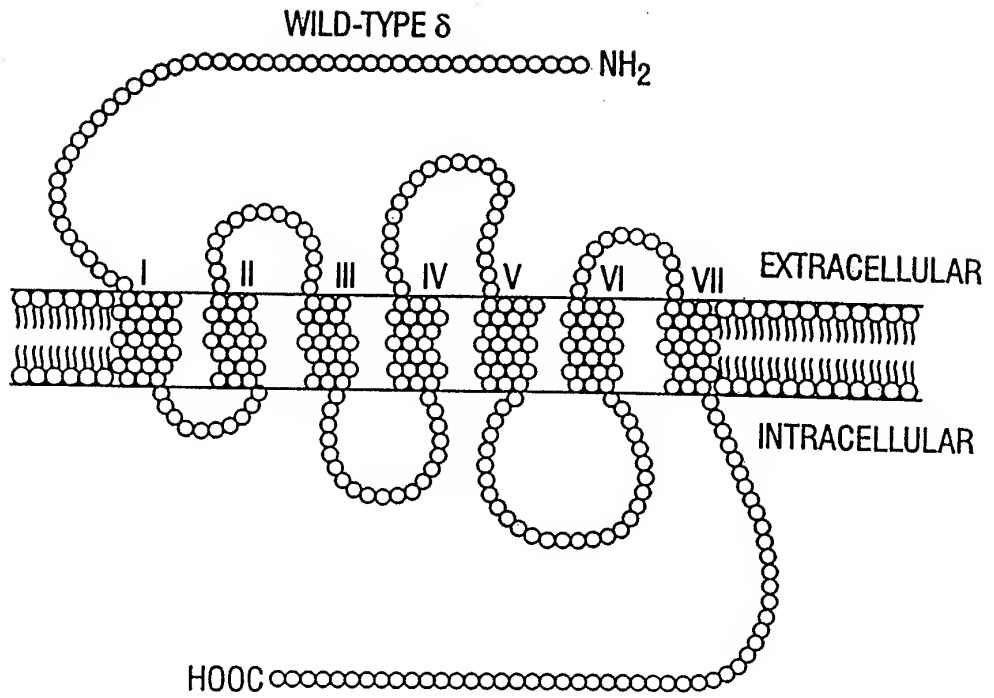


FIG. 7A

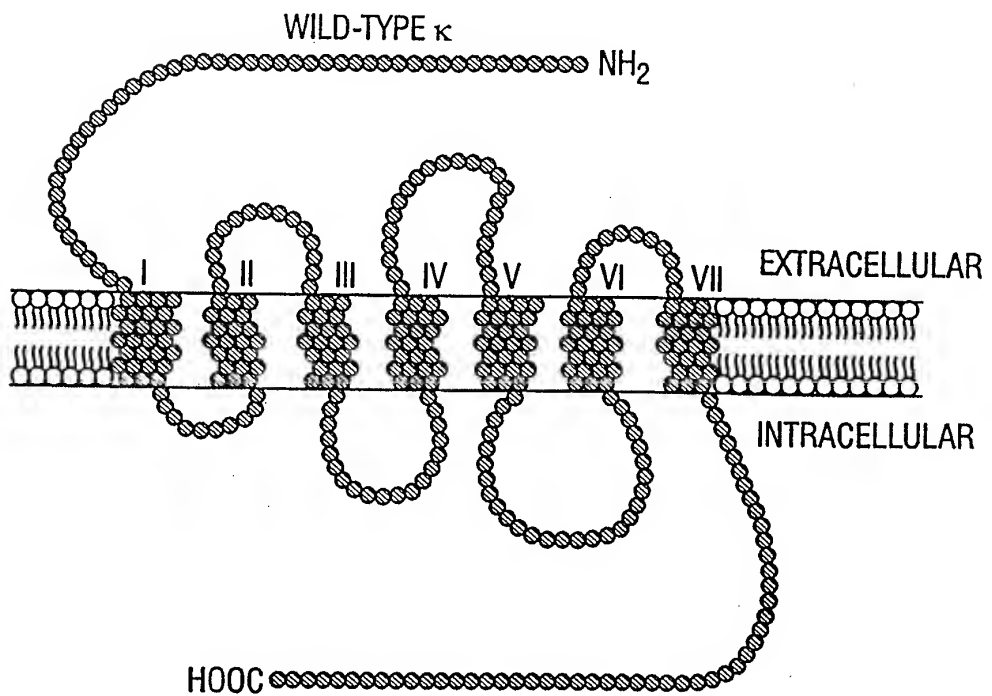


FIG. 7B

REPLACEMENT  
SHEET

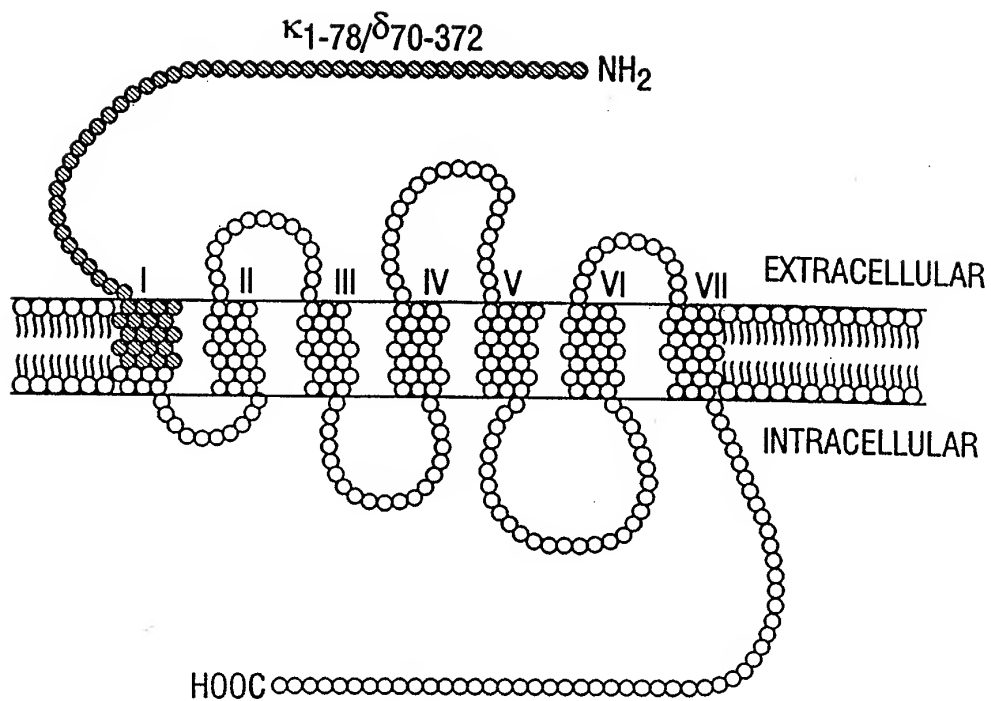


FIG. 7C

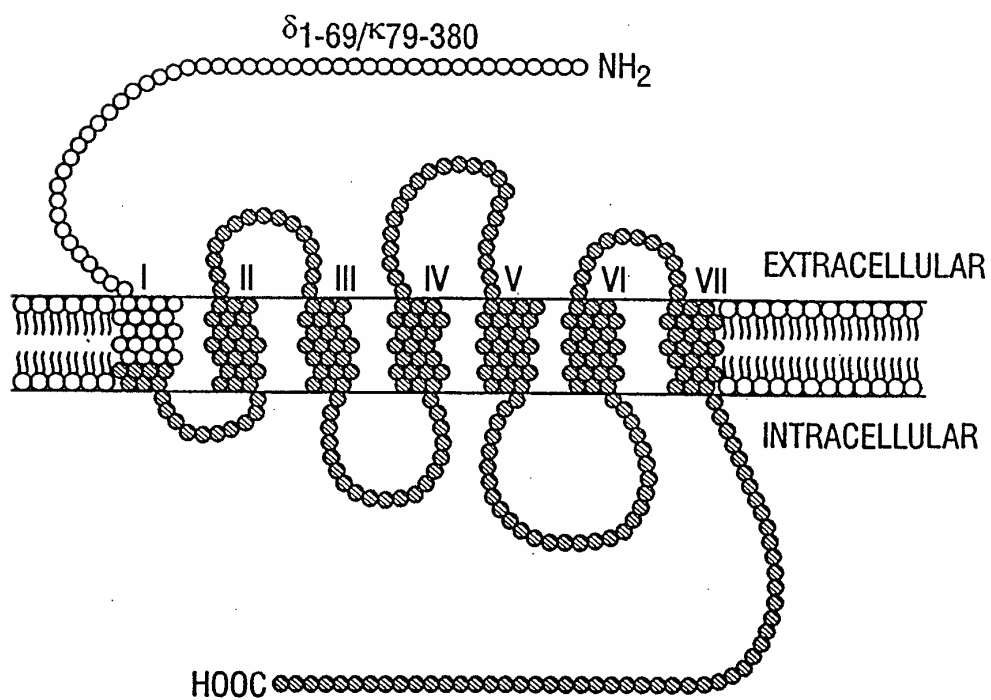


FIG. 7D



REPLACEMENT  
SHEET

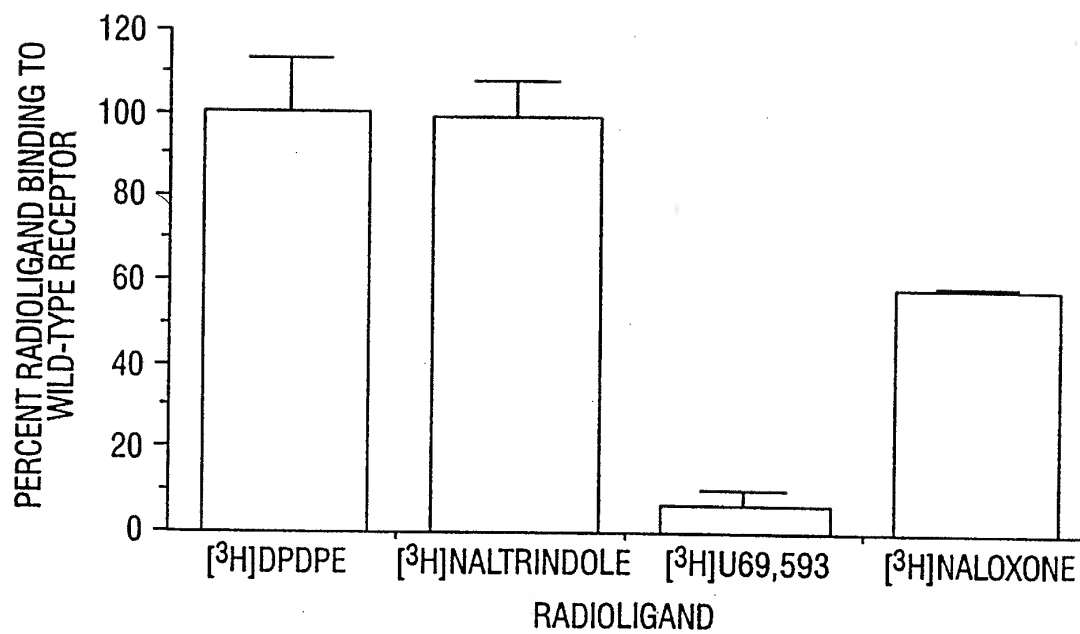


FIG. 8

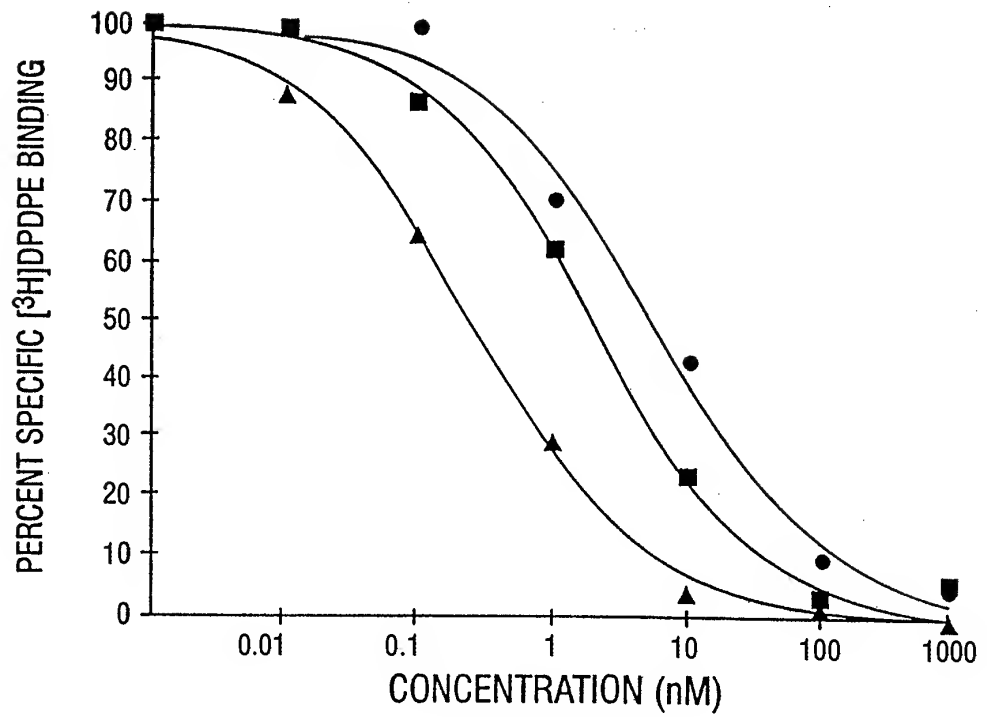


FIG. 9A

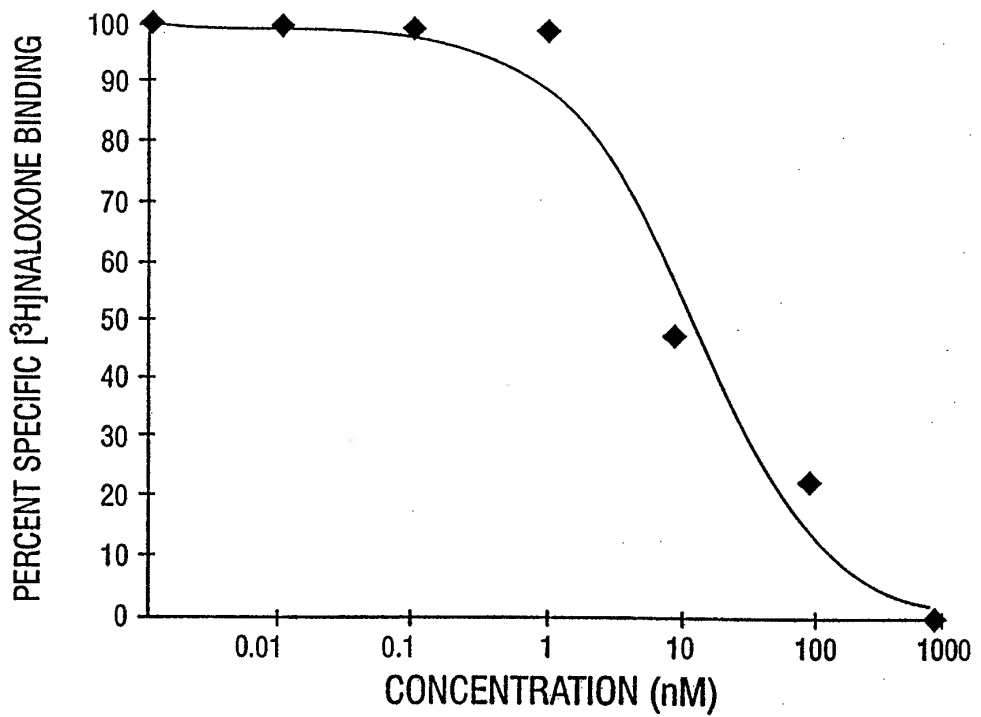


FIG. 9B

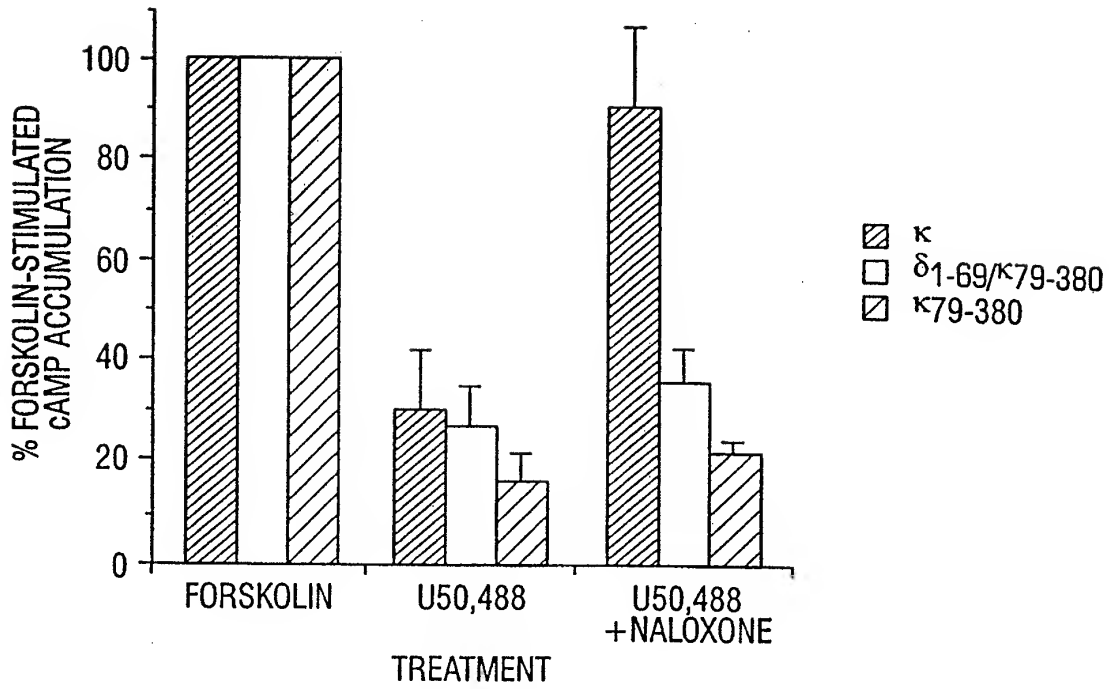


FIG. 10A

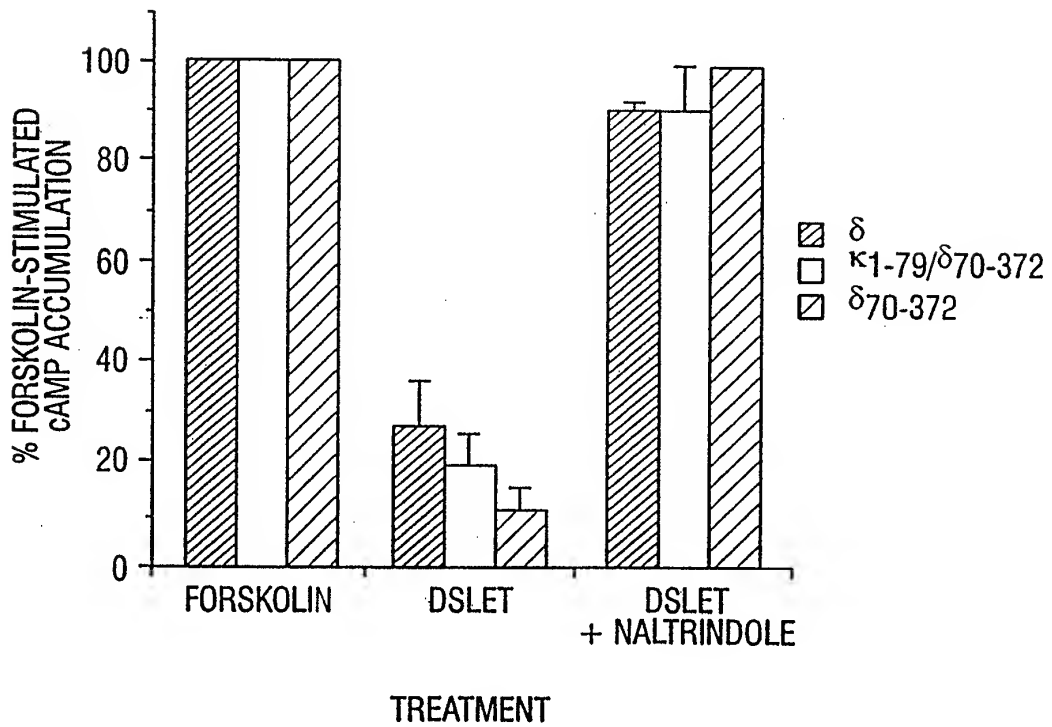
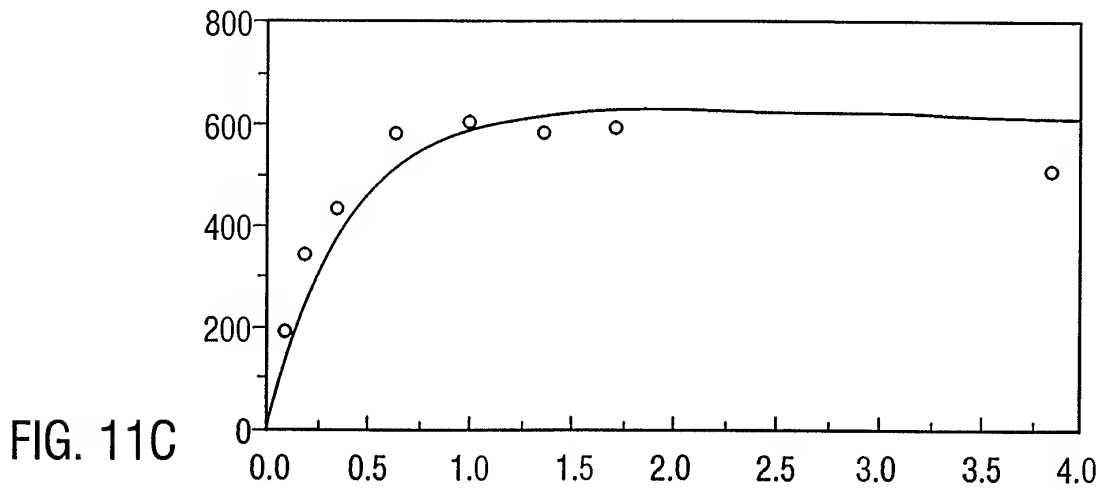
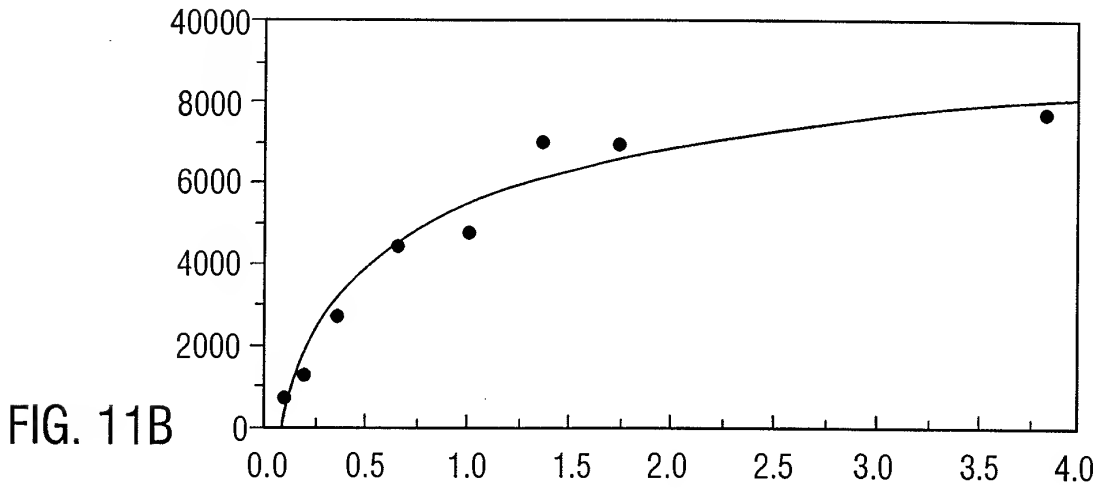
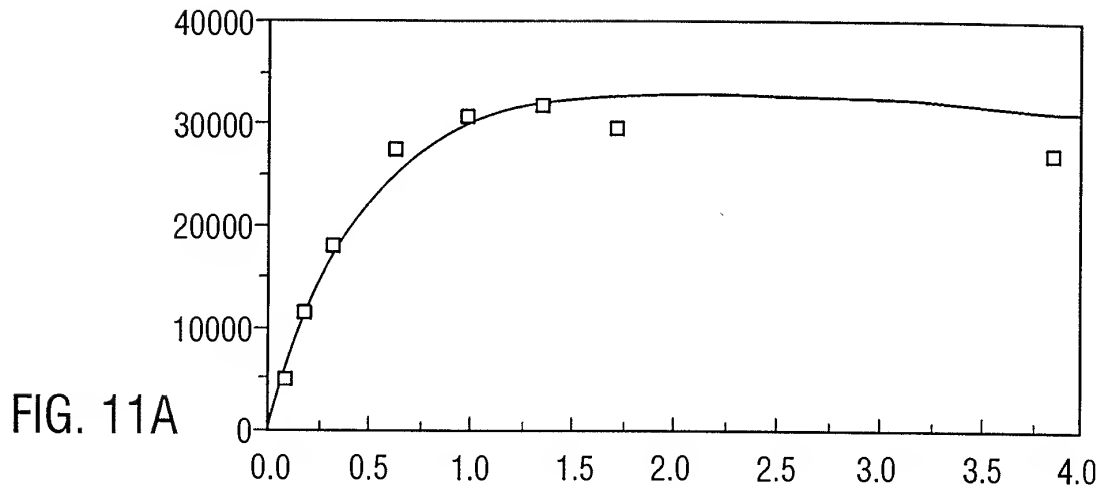


FIG. 10B

REPLACEMENT  
SHEET



REPLACEMENT  
SHEET

FIG. 12A

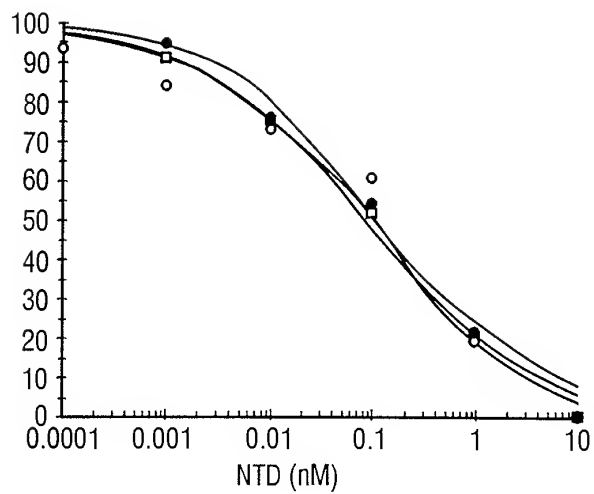


FIG. 12B

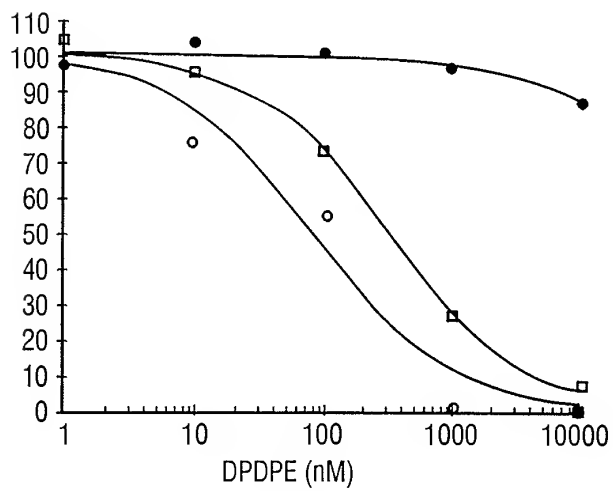
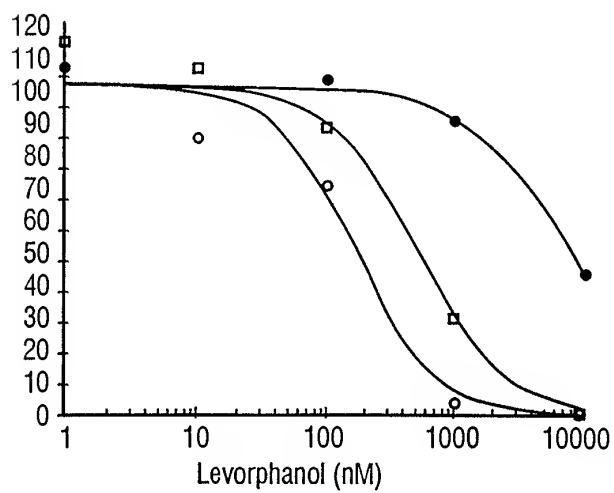


FIG. 12C



REPLACEMENT  
SHEET

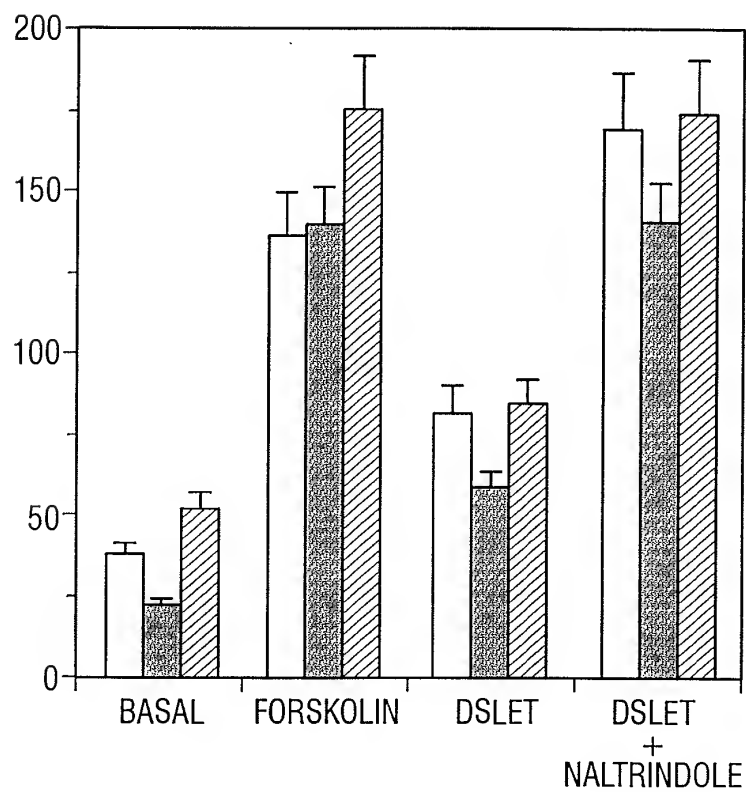


FIG. 13

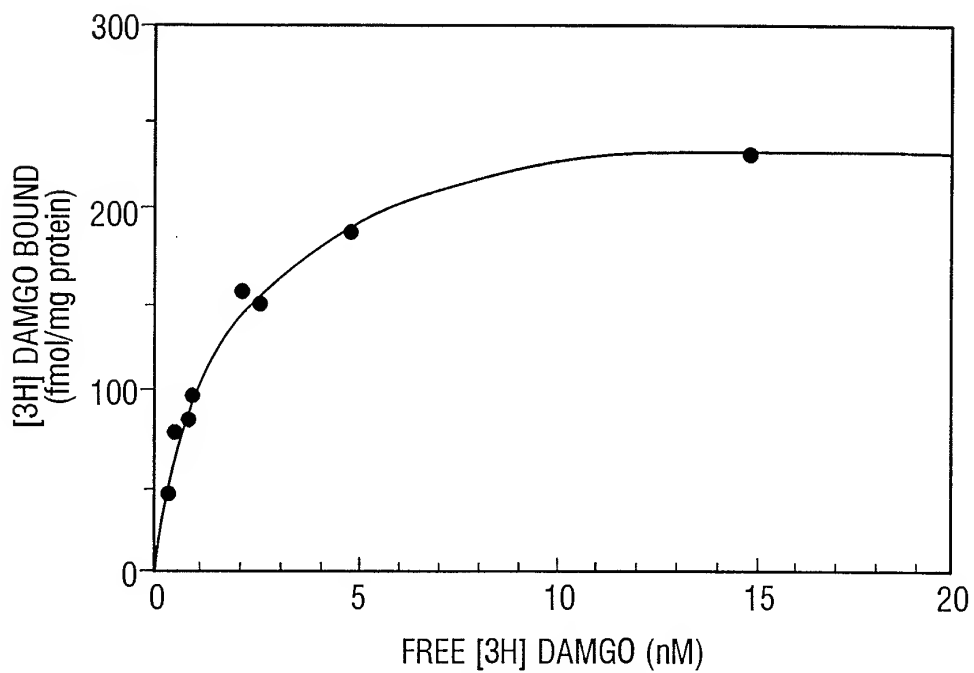


FIG. 14A

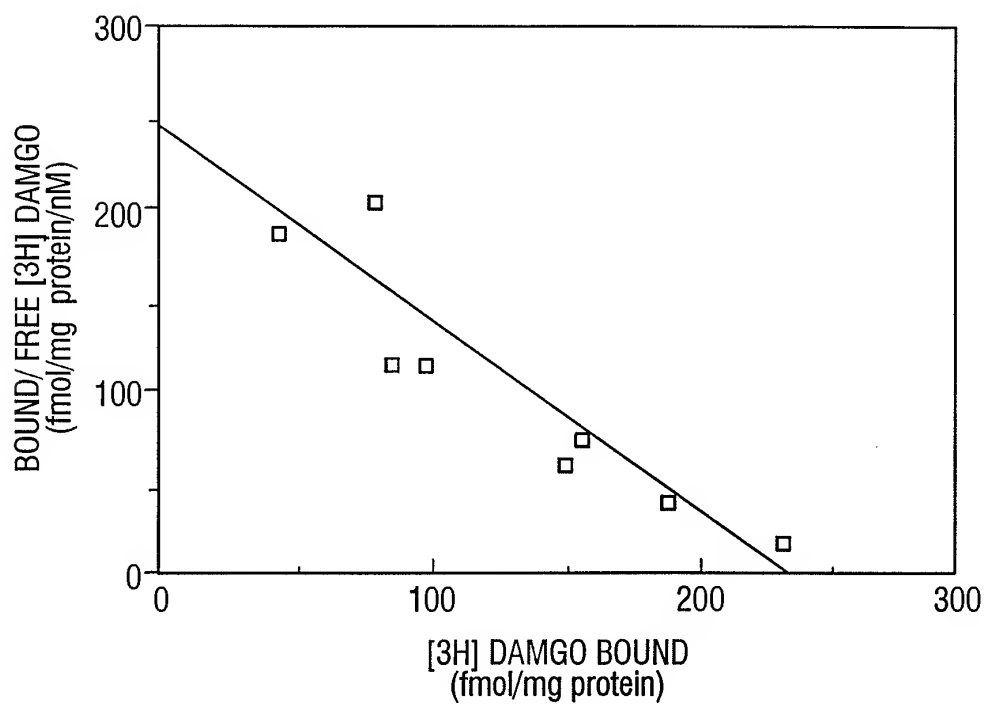


FIG. 14B

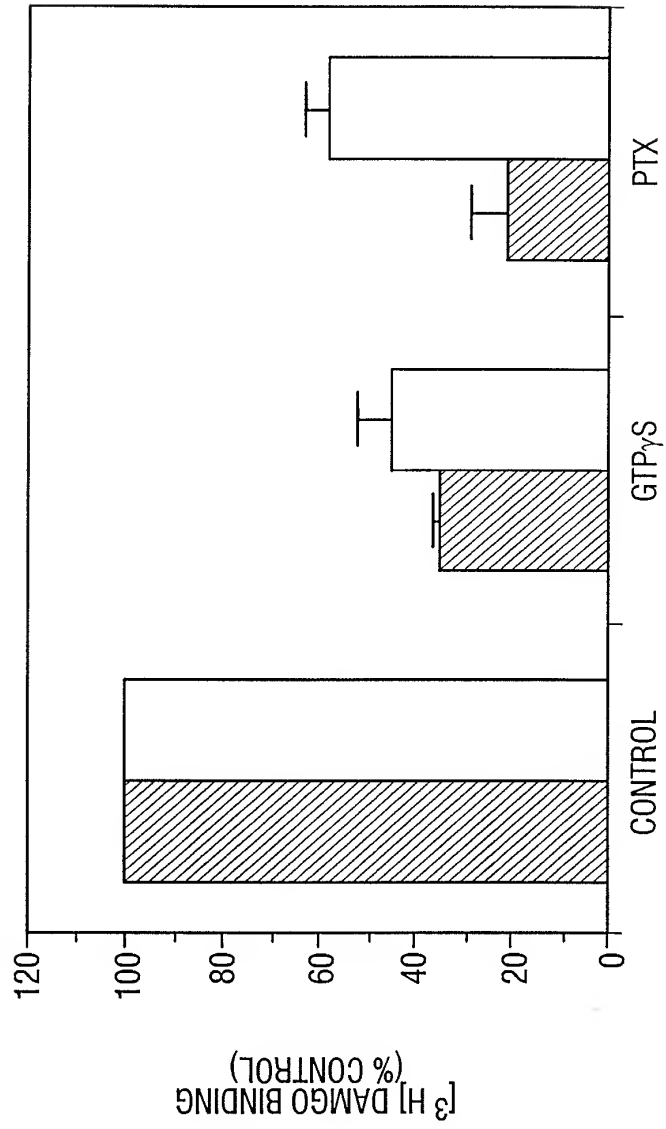


FIG. 15



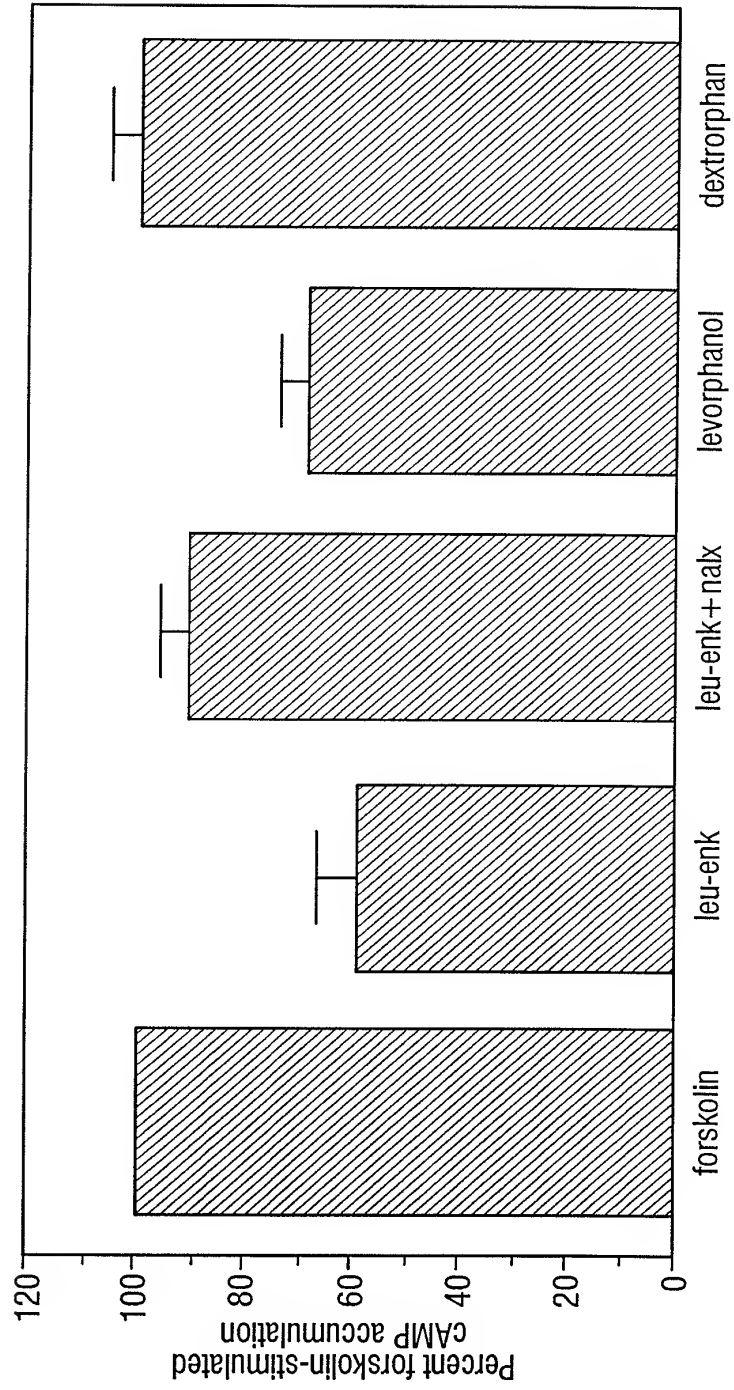


FIG. 16

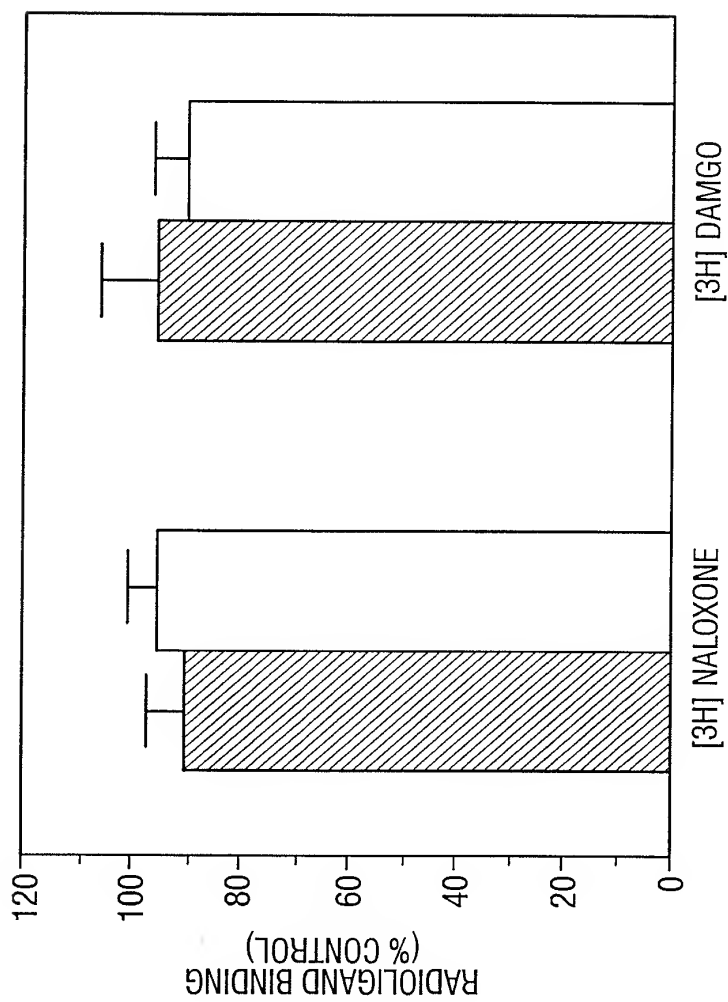
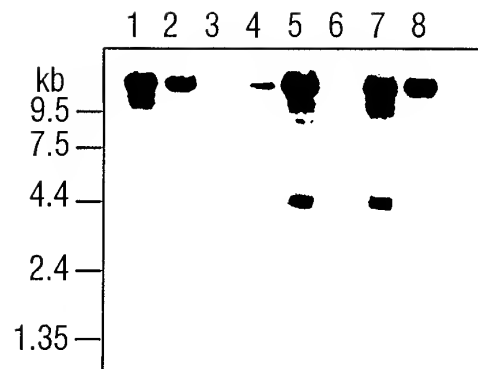


FIG. 17

**REPLACEMENT  
SHEET**



**FIG. 18**